

IN THE CLAIMS:

1. (original) A reinforcement laminate for reinforcing a substrate comprising a carrier layer, a first layer of foamable material capable upon activation of becoming a rigid reinforcement foam secured to said carrier layer, a second layer of foamable material capable upon activation of becoming a compliant foam secured to said first foamable layer, said second foamable layer comprising a bonding layer for securing said laminate to a substrate, said first foamable layer and said second foamable layer being heat curable, said second foamable layer functioning for absorbing shrinkage strains due to heat cure of said second foamable layer and cooling of the substrate, and including a pattern of holes creating open passageways completely through said laminate.
2. (original) The laminate of claim 1 wherein said carrier layer is a foil backing.
3. (original) The laminate of claim 1 in combination with said substrate, and said second layer being intimately bonded directly to said substrate.
4. (original) The laminate of claim 3 wherein said first and second layers and said carrier layer have a generally continuous contour, and at least one rib formed by said first and second layers and said carrier layer forming a minor interruption of said continuous contour.

5. (previously presented) The laminate of claim 4 wherein said substrate includes a rib in line with said rib of said foamable layers and said carrier layer.

6. (previously presented) The laminate of claim 5 wherein said first and second layers and said carrier layer include end flanges extending in the same direction as each other and as said rib away from said continuous contour.

7. (original) The laminate of claim 3 wherein said substrate is a vehicle part selected from the group consisting of a door, a roof, a deck lid and a fender.

8. (original) The laminate of claim 1 wherein said laminate in its elevation view has a pair of longitudinal side edges interconnected by a pair of transverse end edges and at least one of said pair of side edges and said pair of end edges is of non-straight and undulated shape.

9. (original) The laminate of claim 8 wherein said undulated shape has a pattern of hills and valleys joined together in a smooth wavy pattern.

10. (original) The laminate of claim 8 wherein said undulated shape has a pattern of hills and valleys in a sawtooth shape.

11. (original) The laminate of claim 8 wherein said non-straight and undulated edges are said side edges.

12. (original) The laminate of claim 8 wherein said non-straight and undulated edges are said end edges.

13. (original) The laminate of claim 12 wherein said side edges are also non-straight and undulated.

14. (original) The laminate of claim 8 in combination with said substrate, and said second layer being a compliant foam layer intimately bonded to said substrate.

15. (original) The laminate of claim 14 wherein said substrate is a vehicle door.

16. (original) The laminate of claim 1 wherein said pattern of holes comprises a plurality of uniformly and equally spaced aligned rows and columns of holes.

17. (original) The laminate of claim 1 wherein said pattern of holes comprises a plurality of holes arranged in staggered rows and columns.

18. (original) The laminate of claim 1 wherein said pattern of holes is randomly arranged.

19. (currently amended) A reinforcement laminate for reinforcing a substrate comprising a carrier layer, an expandable foamable layer intimately bonded to said carrier layer to form a reinforcing unit, said reinforcing unit in its elevation view having a pair of longitudinal side edges interconnected by a pair of transverse end edges, at least one of said pair of side edges and end edges having a pattern of hills and valleys joined together to be non-straight and undulated, paint read-through control structure comprising a pattern of holes creating open passageways

completely through said carrier layer and said expandable foamable layer of said laminate before said foamable layer is foamed and expanded, and said pattern of holes being a plurality of rows and a plurality of columns with a plurality of said holes in each of said rows and in each of said columns.

20. (canceled)

21. (canceled)

22. (original) The laminate of claim 19 wherein said non-straight and undulated edges are said side edges.

23. (original) The laminate of claim 19 wherein said non-straight and undulated edges are said end edges.

24. (currently amended) The laminate of claim ~~[[19]]~~ 23 wherein said side edges are also non-straight and undulated.

25. (canceled)

26. (canceled)

27. (canceled)

28. (original) The laminate of claim 19 in combination with said substrate, and said foamable layer being in an expanded foam form intimately bonded to said substrate.

29. (currently amended) ~~The laminate of claim 28 wherein~~ A reinforcement laminate for reinforcing a substrate comprising a carrier layer, an expandable foamable layer intimately bonded to said carrier layer to form a reinforcing unit, said reinforcing unit in its elevation view having a pair of longitudinal side edges

interconnected by a pair of transverse end edges, at least one of said pair of side edges and end edges having a pattern of hills and valleys joined together to be non-straight and undulated, a pattern of holes creating open passageways completely through said laminate, and said pattern of holes being a plurality of rows and a plurality of columns with a plurality of said holes in each of said rows and in each of said columns, in combination with said substrate, said foamable layer being in an expanded foam form intimately bonded to said substrate, and said substrate [[is]] being an automobile door.

30. (original) A reinforced structure comprising a carrier layer, a layer of rigid reinforcement foam secured directly to said carrier layer, a layer of compliant foam secured directly to said rigid foam, said layer of compliant foam comprising a bonding layer securing said laminate to a substrate, said rigid foam layer and said compliant foam layer being heat curable, said compliant foam layer functioning for absorbing shrinkage strains due to heat cure of said foam layer and cooling of said substrate, said substrate being a vehicle door, said compliant foam layer being mounted to said vehicle door, and including a pattern of holes creating open passageways completely through said laminate.

31. (original) The structure of claim 30 wherein said foam layers and said carrier layer have a generally continuous contour,

and at least one rib formed by said foam layers and said carrier layer forming a minor interruption of said continuous contour.

32. (original) The structure of claim 31 wherein said foam layers and said carrier layer include end flanges.

33. (original) The structure of claim 30 wherein said laminate in its elevation view has a pair of longitudinal side edges interconnected by a pair of transverse end edges, and at least one of said pair of side edges and said pair of end edges being of non-straight and undulated shape.

34. (previously presented) The structure of claim 30 wherein said compliant foam layer is mounted at generally the central area of said vehicle door.

35. (previously presented) The laminate of claim 1 wherein said carrier layer is selected from the group consisting of fiberglass cloth, metal screen and foil.

36. (previously presented) The laminate of claim 3 wherein said substrate is a vehicle part.

37. (currently amended) A reinforcement laminate for reinforcing a substrate comprising a carrier layer, a first layer of foamable material capable upon activation of becoming a rigid reinforcement foam secured to said carrier layer, a second layer of foamable material capable upon activation of becoming a compliant foam secured to said first foamable layer, said second foamable layer comprising a bonding layer for securing said laminate to a

substrate, said first foamable layer and said second foamable layer being heat curable, said second foamable layer functioning for absorbing shrinkage strains due to heat cure of said second foamable layer and cooling of the substrate, said carrier layer and said rigid foam layer and said compliant foam layer forming a reinforcing unit, said laminate in its elevation view having a pair of longitudinal side edges interconnected by a pair of transverse end edges, [[and]] at least one of said pair of side edges and said pair of end edges being of non-straight and undulated shape, and said laminate having an outer surface formed by said carrier layer, said outer surface over substantially its entire area being of a smooth continuous contour selected from the group consisting of a flat contour and a curved contour.

38. (previously presented) The laminate of claim 37 wherein said undulated shape has a pattern of hills and valleys joined together.

39. (previously presented) The laminate of claim 37 wherein said non-straight and undulated shape is formed by said side edges.

40. (previously presented) The laminate of claim 37 wherein said non-straight and undulated shape is formed by said end edges.

41. (previously presented) The laminate of claim 40 wherein said side edges also forms a non-straight and undulated shape.

42. (canceled)

43. (canceled)

44. (previously presented) The laminate of claim 19 wherein said rows and said columns are straight and in line with each other.

45. (previously presented) The laminate of claim 19 wherein said columns are staggered with respect to each other.

46. (previously presented) The laminate of claim 19 wherein said rows and said columns are staggered with respect to each other to create a random pattern.

47. (new) The laminate of claim 19 wherein each of said passageways has a straight continuous longitudinal axis.

48. (new) The laminate of claim 19 wherein each of said holes in said foamable layer is aligned with a hole in said carrier layer.

49. (new) The laminate of claim 19 wherein each of said passageways has a uniform diameter throughout its length.

50. (new) The laminate of claim 37 wherein at least one outwardly extending rib is formed by said foam layers and said carrier layer which forms a minor interruption of said smooth continuous contour.

51. (new) The laminate of claim 37 wherein said foam layers and said carrier layer include outwardly extending end flanges.